

Using the VTune™ Performance Analyzer's Remote Agent On Microsoft* Windows* Operating Systems

The VTune™ Performance Analyzer can profile remote computer systems using the Remote Agent. Using the Remote Agent, you can collect sampling data without even needing to be logged on to the remote system. To enable the Remote Agent on a computer system, you don't have to install the entire VTune analyzer. Instead, you just install the Remote Agent, a small subset of the VTune analyzer package. The Remote Agent works on both 32-bit and 64-bit Microsoft* Windows* operating systems.

There are at least two computers involved in this process, the controlling system and the Remote Agent system. You run the VTune analyzer's GUI on the controlling system and profile applications on the Remote Agent system. Additionally, there may be multiple controlling systems for one Remote Agent system, and an individual controlling system may be used to control multiple Remote Agent systems.

Follow these directions to install and use the Remote Agent. The Remote Agent may only be installed on systems running Windows NT* 4.0, Windows 2000, Windows XP, Windows Advanced Server, Limited Edition, and the Windows .NET* Server 2003 family of operating systems. To use a computer running Microsoft Windows 98 or Windows ME as a controlling system, see the on-line help.

Creating User Accounts:

Before you install anything, you may need to create one or more user accounts on both computers. The main requirement that needs to be satisfied is that the user that runs the VTune analyzer on the controlling system must have access to the Remote Agent system via standard Windows* operating system networking protocols. If both systems are on the same domain and the users that will run the VTune analyzer on the controlling system are found in this domain, then new user accounts do not need to be created. However, if both systems are not on the same domain, or it is necessary to use a local user account to run the VTune analyzer on the controlling system, then it is necessary to create a new user account on one or both of the systems. On both systems, a local user account should be created that has the same user name and password. For instance, if you create a new user with username "User01" and password "User01Password" on the controlling system, the same should be done on the Remote Agent system. On both systems, the user can be a standard user and does not need administrator privileges.

Remote Agent System:

1. Log in as the Administrator.

2. Run the VTune analyzer's installation package.
3. Click on **Windows Agents** under **VTune™ Performance Analyzer 7.0 Remote Agents**.
4. When the **Remote Agent Configuration** dialog appears, you will be prompted for a password. This password does not need to be the same as the password for the user accounts you created earlier. You will need to keep track of this password for use on the controlling system.
5. When prompted, choose the accounts allowed to profile the system via the Remote Agent.
6. Reboot the computer.

Controlling System:

1. Log in as the Administrator.
2. Install the VTune analyzer (if it has not already been installed on the computer system).
3. Run the **Remote Agent Configuration Utility** (this is part of the VTune analyzer install package).
4. Enter the password you entered in Step 4 of the Remote Agent system installation.
5. Reboot the computer.

Creating and configuring a remote sampling Activity:

1. Run the VTune analyzer on the controlling system.
2. Create a new Activity.
3. Select the **Sampling Wizard**.
4. Click **OK**.
5. Select **Win32*/Win64*/Linux Profiling**.
6. Click **Next**.
7. If desired, specify an application to launch (if the path of the application on the Remote Agent system is c:\myapps\myapp.exe, then this is the path that should be entered, not something like \\remoteagent\cdrive\myapps\myapp.exe).
8. Click **Remote...**
9. Enter the domain name, Windows networking name, or IP address of the Remote Agent system in the **Machine Name** textbox.
10. Click **OK**.
11. Click **Finish**.

The VTune analyzer will display the results after the sampling Activity completes. If you want to drill down to the hot spot or source views, you need to either map the remote computer's drive or copy the executable, debug information, and source code manually.

Note: By default, the Remote Agent is setup to launch applications in a non-interactive fashion. That means that even if someone is logged on to the Remote Agent system, the GUI for applications launched by the VTune analyzer will not be displayed. In order to use an

application interactively, refer to the VTune analyzer's on-line help.

Note: To create more complex Activities in which multiple applications are launched on the Remote Agent system or multiple Remote Agent systems are used within the same Activity, use the Advanced Activity Configuration wizard.

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